

# ID4Africa

## National Registry, Corner Stone of a Secure National Scheme



Charles Mevaa – VP Africa, Government Programs  
June 2, 2015, Dar Es Salaam

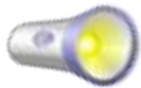
# Civil Register: Who needs it & What for ?

## Home Affairs Department



- Regional planning
- Person Security
- Fraud prevention

## Justice Department



- Vital Event logging and vital records archiving
- Filiation
- Family law

## Vital Statistics Department



- National Vital Statistics
- Demographic trends

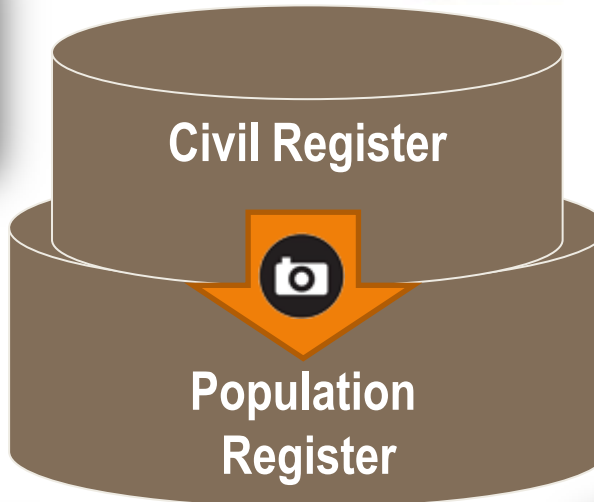
## Finance Department



- Statistics & demographic previsions
- State needs evolution
- Knowledge of population (active population, military conscription...)
- Taxes

- Reliability of person's status (birth, death)

## Health Department



# Modernizing Civil Registration

## A Trend since 2010

- ✘ Decade 2010-2020 has been declared by UNO, **the Civil Registration Decade**
- ✘ Since 2005, **ICAO** is requesting more reliable travel identity documents
- ✘ Identity documents cannot be reliable if breeder's documents are dubious or fraudulent

## The needs of the modernization

- ✘ Get Reliable sources to build a **Reference Master Base**
- ✘ Know population and demographic evolutions
- ✘ **Reliable identity documents** production

## Why GEMALTO ?

- ✘ As Worldwide Leader in Security and Identity documents, Gemalto is an operational partner of governments in the Security worldwide effort
- ✘ Gemalto has a dedicated division to help Government organizations in their modernization efforts to bring new eServices to their citizens

# Coesys, a complete solutions portfolio

## Enrollment



National Registry



Enrolment

## Issuance & document mgnt



Issuance



eDoc & PIN Delivery

## eVerification



Terminal Management System



Verification Terminal

## eGovernment



Identity Provider



Desktop & Mobile eGov

# Some key figures

## Identity document in Polycarbonate

**More than 90 millions** of polycarbonate documents produced in the last 10 years

## Our Solutions

**More than 100 millions** of people enrolled

**More than 20 millions** of personalized document per year

## The electronic passport

**30% market share** of the electronic passport market

**50% of the EU countries** are using Gemalto technologies

# Contributing to more than 80 government programs



## Over 80 e-Identity projects, including

- ✕ over 25 ePassport
- ✕ over 30 National eID/eRP
- ✕ 7 eDriving License
- ✕ 17 eHealth

## Over 60 turnkey solutions / managed services

- ✕ 16 Enrolment
- ✕ 38 Issuance systems
- ✕ over 10 Visa Mgt (OEM)
- ✕ 7 e-Verification
- ✕ 10 e-Gov
- ✕ 4 Border Management

### Border Management

- Ghana
- Morocco
- Norway
- Croatia

### ePassports

- Algeria
- Belgium
- Burundi
- Cap Verde
- Czech Republic
- Denmark
- Gabon
- Estonia
- France
- Hong Kong
- Ivory Coast
- Korea
- Latvia
- Malta
- Moldova
- Morocco
- Norway
- Oman
- Poland
- Portugal
- Taiwan
- Turkey
- Singapore
- Slovenia
- Sweden
- USA

### Visa Management

- Ghana
- Argentina
- Over 10 projects (OEM)

### eHealthcare:

- Algeria
- Antigua
- Azerbaijan
- Bulgaria
- Canada (Sunrise)
- China
- France
- Gabon
- Germany
- Italy
- Mexico
- Puerto Rico
- Slovenia
- Spain
- Sweden (doctors)
- Turkmenistan
- United Kingdom (doctors)

### Driving Licenses

- Australia eDL (Queensland)
- El Salvador (eDL)
- France (eDL)
- Greece (DL)
- India (eDL)
- Ireland (eDL)
- Luxembourg (DL)
- Morocco (eDL)
- Mexico (eDL)
- Norway (DL)
- United Kingdom (DL)

### ID & Resident Permits

- Bahrain (eID)
- Belgium (eID/eRP)
- Czech Republic (ID/eID)
- Denmark (eRP)
- Finland (eID, RP, Mobile ID)
- France (eRP)
- Greece (eRP)
- India (Mobile ID)
- Ireland (eRP)
- Hong Kong (eID)
- Korea (Mobile ID)
- Kuwait (eID)
- Lithuania (eID)
- Moldova (Mobile ID)
- Mongolia (eID)
- Oman (eID/eRP/Mobile ID)
- Portugal (eID/eRP)
- Qatar (eID/eRP)
- Republic of South Africa (eID)
- Saudi Arabia (eID)
- Singapore (ID)
- Spain (readers)
- Sweden (eID/eRP)
- Taiwan (eRP)
- Tunisia (ID)
- UAE (eID)
- UK (eRP)
- Benin (Voter Registration)
- Burkina Faso (Voter Reg.)
- Gabon (Voter Registration)
- USA: DoD cards (military)
- Tachographs in 15 countries

# Barriers to modernizing Civil Registration

## Barriers

## • How to remove barriers

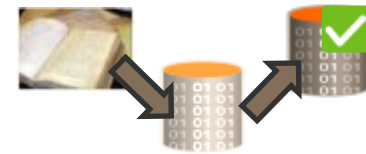
### Lack of proximity

- Allow registration for all
- Multiply occasions to meet citizens, collect data, and to perform validation



### Sources Reliability

- Build a transition Database
- Verification process before adding in Master Base



### Few or No unicity criteria

- Use biometry as a mean of unambiguous identification



### No network to decentralize

- Periodic secured refresh on magnetic support (weekly or daily)



### No secured buildings No shared infrastructure

- Build a secure vault with agents' access control



### Training of qualified personnel

- Train personnel and ensure nominal tracking of actions for any access and update



# Gemalto implementation proposal

Modernizing Civil Register relies on several sub programs that need to be implemented in parallel and require coordination

Training & knowledge transfer

Operation

Platforms and Equipments

Network & Communication

Assistance & Program Management

•Population communication

•National Data Center Operations

•Training on new rules and procedures, applications and equipments  
•Training on new registration procedures

•Local Civil Registrations Centers  
•Intermediate Civil Register Centers  
•Central Platforms, Certificate Authority, National Center

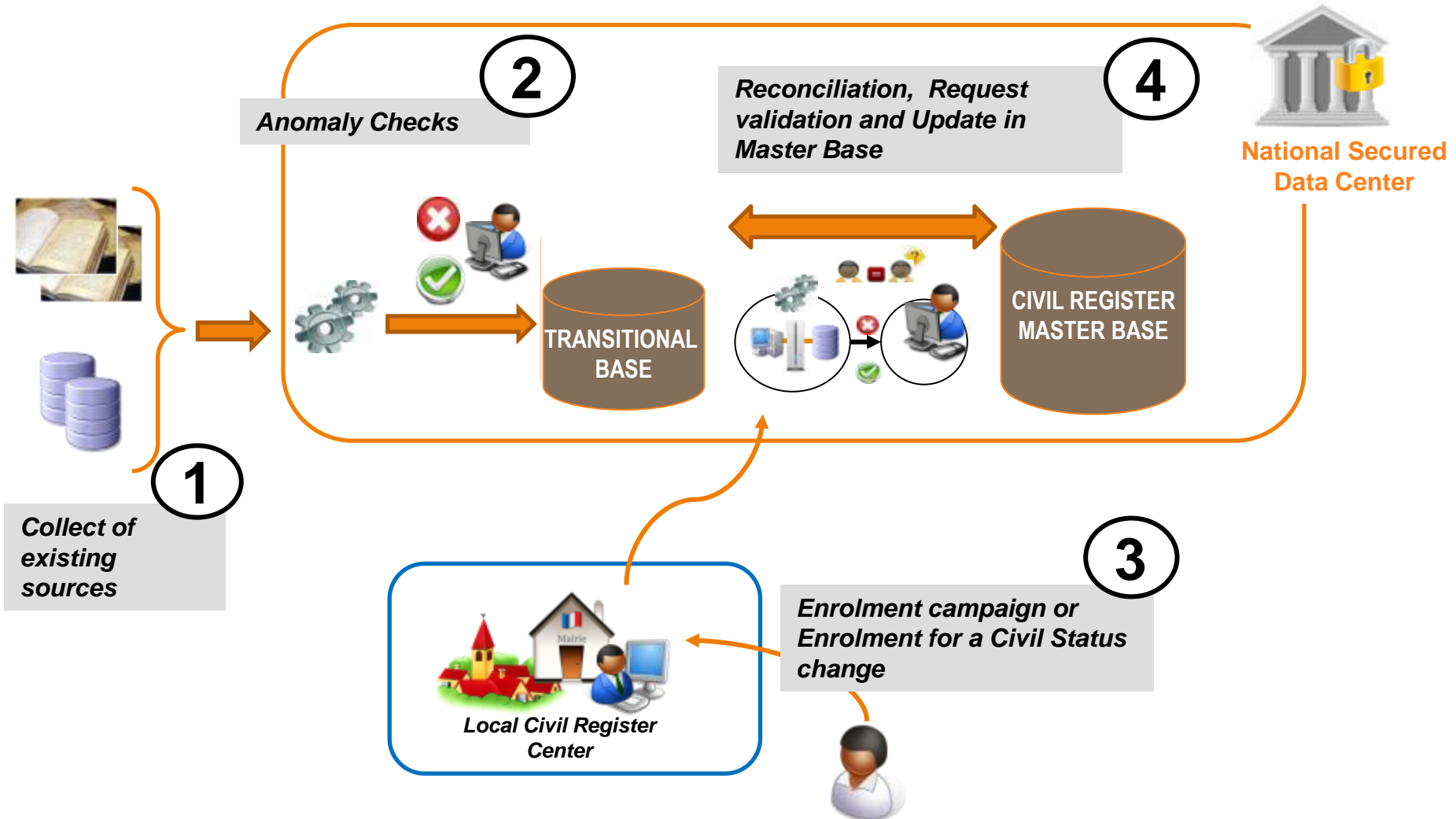
•Territorial enrolment & validation network  
•Interministerial network & Access control

•Work groups  
•Legal framework  
•Legal Digital trust framework

•Rollout  
•Census

•Launch

# Data Accuracy Validation cycle



# Sharing Civil Register between State Departments



**National Secured Center**



- ✘ *Interoperability framework compliance*
- ✘ *Authorization and Controlled access*
- ✘ *Nominal tracking of accesses*



*Authorization - control - Data protection*

*Exchange Bus & Workflow*

*Interministerial Secured Exchange Network*



**Home Affairs**



**Elections**



**Health Education**



**Economy Finance**



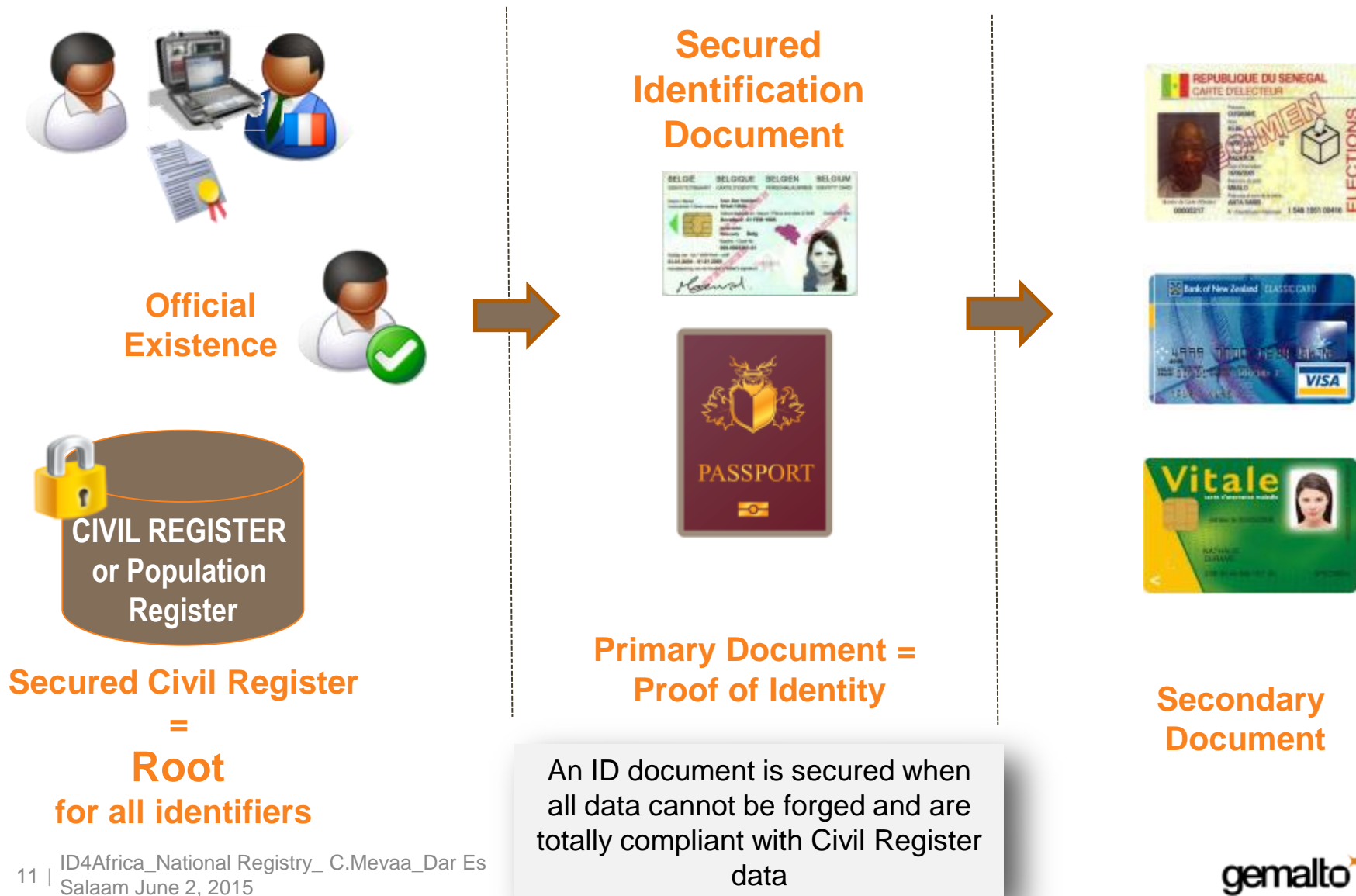
**Justice**



**Social Security**

**Civil Register shall be designed as a Shared Server Resource**

# Civil Register : The Identification chain Cornerstone



# Program Key Success Factors

## Accuracy – Security – Proximity – Availability - Sharing

- ✦ **Global Vision** of Civil Registration modernization
- ✦ **Governance** strategy
- ✦ **Nationwide Centers** to reach everyone
- ✦ **Collect and control** sources. Organize **progressive migration**
- ✦ **Train officers** – Gain support of traditional local authorities (mayors, village chiefs)
- ✦ **Integrate Civil Register** in the State Information system to secure Identity documents

THE MODERNIZATION OF THE CIVIL REGISTER

## USE CASES

- OMAN
- GABON

# The civil register of OMAN



## The objective

- ✘ Build a reliable population database
- ✘ Increase the knowledge of the demographic evolution
- ✘ Ease the economic and social governance
- ✘ Optimize the cost and manpower
- ✘ Share the secured population database to other governmental organization
- ✘ Build the bases of the future online e-Governmental services

## The project

- ✘ Contract **signature in 2002**
- ✘ 1st opening of civil registration center end of **2003 and issuance of the eID card**
- ✘ Civil certificates (birth, death ...) and resident permit issuance in **2004**



12 Civil registration centers in 2004

UN Award for the modernization of public services in 2009



# The civil register of OMAN



## Few details

- ✦ All databases migrated in the population database
- ✦ Biometry used for citizens authentication
- ✦ Unique identifier number
- ✦ Specific web portal deployed for new e-Governmental services



## Civil registration center and issuance of the secured document

- ✦ Birth / Death registration
- ✦ Marriage / Divorce registration
- ✦ Birth and death certificates issuance
- ✦ eID card issuance
- ✦ Resident permit issuance



# The Civil registration in Gabon



## The Civil registration before the modernization

- ✘ Civil registers were falling into disrepair
- ✘ The paper handling is threatened by physical deterioration (weather, insects)
- ✘ No advanced technological infrastructure for data processing,
- ✘ No telecommunications infrastructure to date for the transfer of data on the whole territory



## A project management by steps

### Step 1:

- ✘ Voter registration done in 2013  
(*election in Dec 2013*)

### Step 2:

- ✘ Legal Framework
- ✘ Civil registration specification

### Step 3:

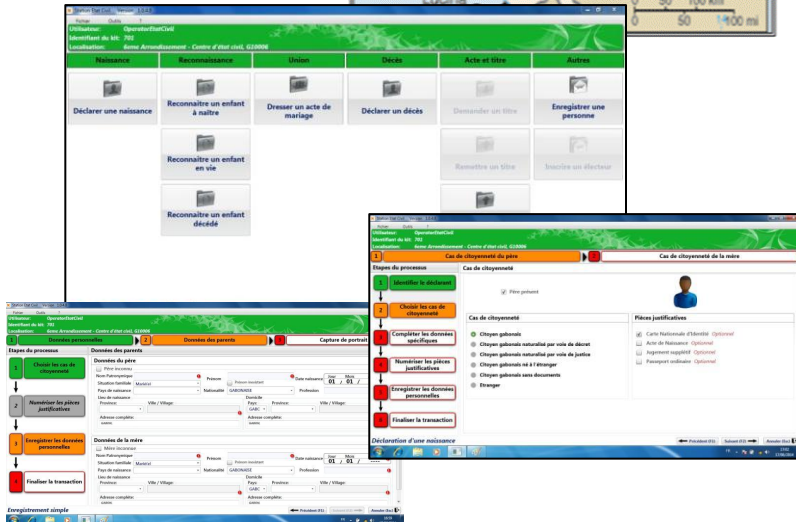
- ✘ System integration

# The Civil registration in Gabon



## Few details

- ✘ 1 Primary site in Libreville hosting the main civil register
- ✘ 9 Regional sites used for civil registration request, all equipped with a duplicated civil register database
- ✘ Town hall used to process citizen request:
  - ✘ Civil registration (birth, death, marriage, divorce, etc)
  - ✘ Issuance of certificates
  - ✘ eID card request
  - ✘ eP request



# Civil registration software

## Screen shot



The screenshot displays the 'Station Etat Civil' software interface, version 1.0.4.3. The main window is titled 'Compléter les données spécifiques' (Complete specific data). The interface is divided into several sections:

- Etapes du processus (Process Steps):** A vertical list of six steps, with step 3 'Compléter les données spécifiques' (Complete specific data) highlighted in orange, indicating the current step. The other steps are: 1. Identifier le déclarant (Identify the declarant), 2. Choisir les cas de citoyenneté (Choose citizenship cases), 4. Numériser les pièces justificatives (Digitize supporting documents), 5. Enregistrer les données personnelles (Register personal data), and 6. Finaliser la transaction (Finalize transaction).
- Données spécifiques (Specific Data):**
  - Informations complémentaires (Additional Information):** Three checkboxes: 'Les parents sont mariés' (Parents are married), 'Le père déclare formellement reconnaître l'enfant' (Father formally recognizes the child), and 'Enfant Issu d'une grossesse gémellaire' (Child born from a twin pregnancy).
  - Heure de naissance (Time of Birth):** A digital clock showing 12:00:00 in HH:mn:ss format.
  - Identité de l'Officier d'état civil (Civil Officer Identity):** A dropdown menu showing 'Préfet Aymen Amri'.
- Pièces justificatives (Supporting Documents):** A list of document types with checkboxes:
  - Formulaire de déclaration *Obligatoire* (Declaration form - Mandatory)
  - Mandat du représentant *Optionnel* (Mandate of the representative - Optional)
  - Bulletin ou attestation de naissance *Optionnel* (Birth bulletin or certificate - Optional)
  - Jugement supplétif (déclaration hors délais) *Optionnel* (Suppletory judgment (declaration out of time) - Optional)
  - Justificatif de reconnaissance *Optionnel* (Proof of recognition - Optional)

The bottom of the screen shows a taskbar with various icons and a system tray displaying the date and time: 17:03 on 17/06/2014.

# Civil registration software

Screen shot



Station Etat Civil - Version 1.0.4.3

Fichier Outils ?

Utilisateur: OperatorEtatCivil  
Identifiant du kit: 701  
Localisation: 6eme Arrondissement - Centre d'etat civil, G10006

1 Données personnelles 2 Données des parents 3 Capture de portrait

**Etapes du processus**

- 1 Choisir les cas de citoyenneté
- 2 Numériser les pièces justificatives
- 3 Enregistrer les données personnelles
- 4 Finaliser la transaction

**Données des parents**

**Données du père**

Père inconnu

Nom Patronymique  Prénom  Date naissance Jour Mois Années 01 / 01 / ----

Situation familiale Marié(e) - Prénom inexistant

Pays de naissance  Nationalité GABONAISE - Profession

Lieu de naissance

Province:  Ville / Village:  Domicile

Pays: GABC - Province:  Ville / Village:

Adresse complète:  Adresse complète:

GABON, GABON,

**Données de la mère**

Mère inconnue

Nom Patronymique  Prénom  Date naissance Jour Mois Années 01 / 01 / ----

Situation familiale Marié(e) - Prénom inexistant

Pays de naissance  Nationalité GABONAISE - Profession

Lieu de naissance

Province:  Ville / Village:  Domicile

Pays: GABC - Province:  Ville / Village:

Adresse complète:  Adresse complète:

GABON, GABON,

Enregistrement simple

← Précédent (F1) Suivant (F2) → Annuler (Esc)

FR 16:59 17/06/2014

CIVIL REGISTER MODERNIZATION

# Conclusion



**CIVIL REGISTER  
or Population  
Register**



✧ Civil Register is **THE** reference

✧ Civil Registration can

- ✧ Help citizens to get **social benefits & civil rights**
- ✧ Help tracking **population size and trends & facilitates democratic governance**
- ✧ Help **securing the Social contract between Individual & State**

**Civil Register as Master Population Base must be  
RELIABLE**

Thank You !